# Mobile SATA
# Spinpoint M6

| Capacity | | 320GB | 250GB |
|---|---|---|---|
| Model | 8 MB | HM320JI | HM251JI |

## FEATURES

- Max. 160GB formatted capacity per disk
- SATA Native Command Queuing Feature
- TuMR/PMR head with FOD technology
- Serial ATA 1.5Gbps Interface Support
- Load/Unload Head Technology
- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

### DRIVE CONFIGURATION

| | |
|---|---|
| **Capacity** | 250GB/320GB |
| **Interface** | SATA 1.5Gbps |
| **Buffer DRAM Size**[2] | 8 MB |
| **Byte per Sector** | 512 |
| **Rotational Speed** | 5,400 RPM |

### PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| **Average Seek time (typical)** | 12 ms |
| **Average Latency** | 5.6 ms |
| **Data Transfer Rate** | |
| Media to/from Buffer (Max.) | 826Mbits/s |
| Buffer to/from Host (Max.) | 150MB/s |
| **Drive Ready Time (typical)**[3] | 4 sec |

### RELIABILITY SPECIFICATIONS

| | |
|---|---|
| **Non-recoverable Read Error** | 1 sector in $10^{14}$ bits |
| **Controlled Ramp Load/Unload** | 600,000 |

### ACOUSTICS

| | |
|---|---|
| **Idle (typical)** | 2.4 Bel |
| **Performance Seek (typical)** | 2.6 Bel |

### POWER REQUIREMENTS

| | |
|---|---|
| **Voltage** | +5V±5% |
| **Spin-up Current (Max.)** | 900 mA |
| **Seek (typical)**[4] | 2.2 W |
| **Read/Write (typical)** | 2.0 W |
| **Low Power Idle (typical)** | 0.6 W |
| **Standby (typical)** | 0.25 W |
| **Sleep (typical)** | 0.2 W |

### ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| **Temperature** | |
| Operating | 5 ~ 55 ℃ |
| Non-operating | -40 ~ 70 ℃ |
| **Humidity (non-condensing)** | |
| Operating | 5 ~ 90 % |
| Non-operating | 5 ~ 95 % |
| **Linear Shock (1/2 sine pulse)** | |
| Operating(2ms) | 325 G |
| Non-operating(1ms) | 1000 G |
| **Vibration** | |
| Operating(Random,10~500Hz) | 0.73Grms |
| **Altitude (relative to sea level)** | |
| Operating | -300 to 3000 m |
| Non-operating | -400 to 15000 m |

### PHYSICAL DIMENSION

| | |
|---|---|
| **Height (Max.)** | 9.5 mm |
| **Width** | 69.85 mm |
| **Length** | 100 mm |
| **Weight (avg.)** | 102 g |

* Note : Design and specifications are subject to change without prior notice.

1.1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes
Accessible capacity may vary as some OS uses binary numbering system for reported capacity

2 Upper 128 KB is used for firmware

3 Power-On to Drive Ready

4 30% duty cycle, random seek

5 Power requirements based on enabled DIPM & 1.5Gbps speed